

Mobile Workstations Compared

	HP Zbook 15 G4 15.6-in. 3.0GHz Intel Xeon E3-1505M v6 quad-core CPU, NVIDIA Quadro M2200, 32GB RAM, 512GB NVMe PCIe SSD	PNY PREVAIL PRO P4000 15.6-in. 2.8GHz Intel Core i7-7700HQ quad-core CPU, NVIDIA Quadro P4000, 32GB RAM, 512GB NVMe PCIe SSD and 2TB 5400rpm SATA HD	Dell Precision 5520 15.6-in. 3.0GHz Intel Xeon E3-1505M quad-core CPU, NVIDIA Quadro M1200M, 32GB RAM and 512GB NVMe PCIe SSD	MSI WT73VR 17.3-in. 2.9GHz Intel Core i7-7820HK quad-core CPU, NVIDIA Quadro P5000, 64GB RAM, 512GB PCIe SSD and 1TB 7200rpm SATA HD	MSI WS63 15.6-in. 2.8GHz Intel Core i7-7700HQ quad-core CPU, NVIDIA Quadro P3000M, 32GB RAM, 512GB PCIe SSD and 2TB 5200rpm SATA HD	Eurocom Tornado F5 15.6-in. 3.6GHz Intel Xeon E3-1270 quad-core CPU, NVIDIA Quadro M4000M, 32GB RAM, 2TB PCIe SSD
Price as tested	\$3,095	\$4,499	\$2,759	\$4,699	\$2,599	\$5,450
Date tested	12/1/17	3/5/18*	11/27/17	6/28/17	4/3/17	2/13/17
Operating System	Windows 10	Windows 10	Windows 10	Windows 10	Windows 10	Windows 10
SPECviewperf 12 (higher is better)						
catia-04	71.62	110.72	44.56	157.84	96.83	85.32
creo-01	69.15	94.21	45.88	129.89	87.28	80.21
energy-01	5.29	12.40	3.66	12.56	11.59	6.36
maya-04	50.99	73.75	34.47	100.99	66.22	60.58
medical-01	25.62	50.11	16.48	59.31	39.09	27.39
showcase-01	32.19	60.28	23.29	67.53	54.80	48.46
snx-02	58.62	111.05	34.93	185.13	71.52	78.14
sw-03	97.14	121.45	72.15	160.26	103.08	100.19
SPECapc SOLIDWORKS 2015 (higher is better)						
Graphics Composite	6.60	3.44	3.44	4.95	4.38	7.60
Shaded Graphics Sub-Composite	3.33	2.00	2.25	3.06	2.71	4.14
Shaded w/Edges Graphics Sub-Composite	4.65	2.66	3.27	3.89	3.50	5.46
Shaded using RealView Sub-Composite	4.73	2.42	2.70	3.54	3.14	5.64
Shaded w/Edges using RealView Sub-Composite	7.85	2.98	4.51	4.27	3.81	9.20
Shaded using RealView and Shadows Sub-Composite	5.40	2.79	2.31	4.07	3.61	6.44
Shaded with Edges using RealView and Shadows Graphics Sub-Composite	8.34	3.17	3.69	4.51	4.03	9.56
Shaded using RealView and Shadows and Ambient Occlusion Graphics Sub-Composite	15.31	9.00	4.55	13.46	11.77	16.22
Shaded with Edges using RealView and Shadows and Ambient Occlusion Graphics Sub-Composite	21.43	9.12	6.69	13.17	11.53	23.22
Wireframe Graphics Sub-Composite	3.41	3.11	2.96	3.91	3.33	3.65
CPU Composite	4.07	2.21	2.22	4.28	3.97	4.23
SPECwpc v2.0 (higher is better)						
Media and Entertainment	2.63	2.53	2.51	3.12	2.80	2.96
Product Development	2.57	2.53	2.52	3.13	2.78	2.49
Life Sciences	3.01	3.03	2.86	3.60	3.27	3.05
Financial Services	2.87	2.47	2.88	2.90	2.81	3.10
Energy	2.11	2.67	2.58	2.94	2.74	2.60
General Operations	1.62	1.11	1.64	1.45	1.37	1.37
Time						
Autodesk Render Test (in seconds, lower is better)	72.70	58.90	87.10	67.00	52.90	78.30
Battery Life (in hours:minutes, higher is better)	13:30	4:00	9:24	2:55	4:20	3:20

Numbers in blue indicate best recorded results. Numbers in red indicate worst recorded results.

* Represents retesting after updating the graphics driver, which affected the original results published in the February issue of DE.